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Sixth Quarterly Status and Technical Progress Report

Contract NAS5-25977

INVESTIGATION OF ANTARCTIC CRUST AND UPPER MANTLE USING MAGSAT AND OTHER GEOPHYSICAL DATA

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Over the last three months we have been attempting to create an improved version of the MAGSAT magnetic anomaly map by more carefully scrutinizing the accepted data for field-aligned current effects. Data are being continued to a 300-km surface for the compilation of a final map.

Based on this set of data, we are preparing to generate vector anomaly maps over Antarctica. We are also preparing a "high-pass" anomaly map with a cut-off wavelength of approximately 1500 km, since we suspect longer-wavelength features have their origin outside the crust.

Finally, we have been experimenting with our iterative technique to model the data based on the method Won suggested in his earlier quarterly report.

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